



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT8D-11 BYPASS RATIO: 1.0
 UNIQUE ID NUMBER: 1PW008 PRESSURE RATIO (π_{co}): 17.2
 COMBUSTOR:
 ENGINE TYPE: MTF RATED THRUST (F_{oo}) (kN): 66.7

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F _{oo} (g/kN) or SN	39.5	139.8	57.6	24.0
AS % OF ORIGINAL LIMIT	201.6	118.4	77.5	90.9
AS % OF CAEP/2 LIMIT (NO _x)			96.9	
AS % OF CAEP/4 LIMIT (NO _x)			112.6	
AS % OF CAEP/6 LIMIT (NO _x)			121.3	
AS % OF CAEP/8 LIMIT (NO _x)			141.2	

DATA STATUS

x PRE-REGULATION
 - CERTIFICATION
 x REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F _{oo})	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	1.121	0.40	1.20	18.90	
CLIMB OUT	85	2.2	0.914	0.45	1.90	14.60	
APPROACH	30	4.0	0.334	1.40	9.40	5.80	
IDLE	7	26.0	0.146	10.00	35.00	2.75	
LTO TOTAL FUEL (kg) or EMISSIONS (g)			475	2455	8983	3740	-
NUMBER OF ENGINES				13	13	13	13
NUMBER OF TESTS				14	14	14	14
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)				36.8	134.7	56.1	23.0
SIGMA (D _p /F _{oo} in g/kN, or SN)							
RANGE (D _p /F _{oo} in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	
TEMPERATURE (K)	262-300
ABS HUMIDITY (kg/kg)	

FUEL

SPEC	Jet A
H/C	
AROM (%)	

MANUFACTURER: Pratt & Whitney
 TEST ORGANIZATION: P&WA
 TEST LOCATION: East Hartford, CT
 TEST DATES: 26/02/1980-18/06/1980

REMARKS

1. Reduced Emissions Combustor incorporated 1/1/84

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)